

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P509081

Luminaire Tested: **VERD-CA2-100-740-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-740-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14022 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

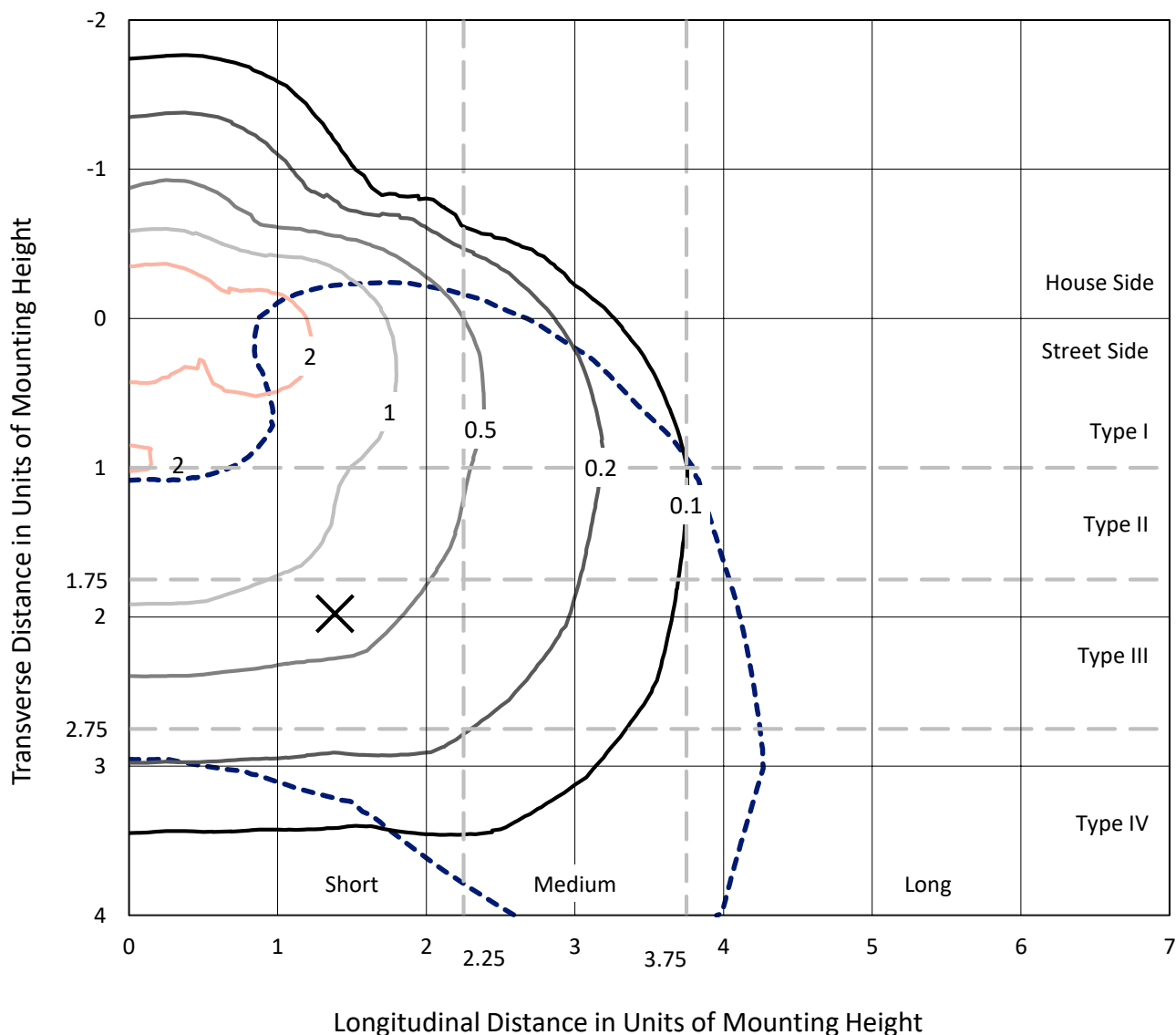
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

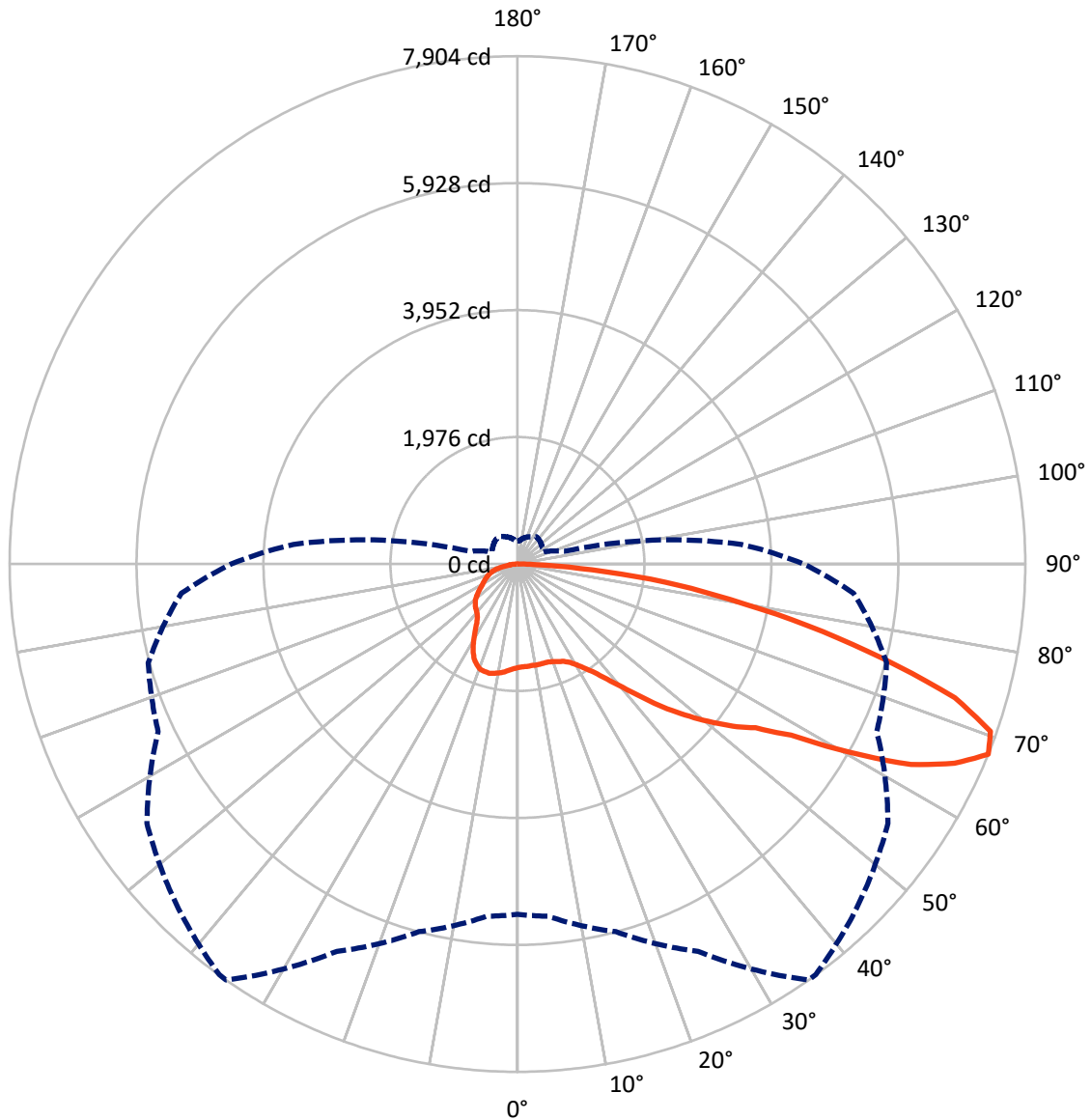
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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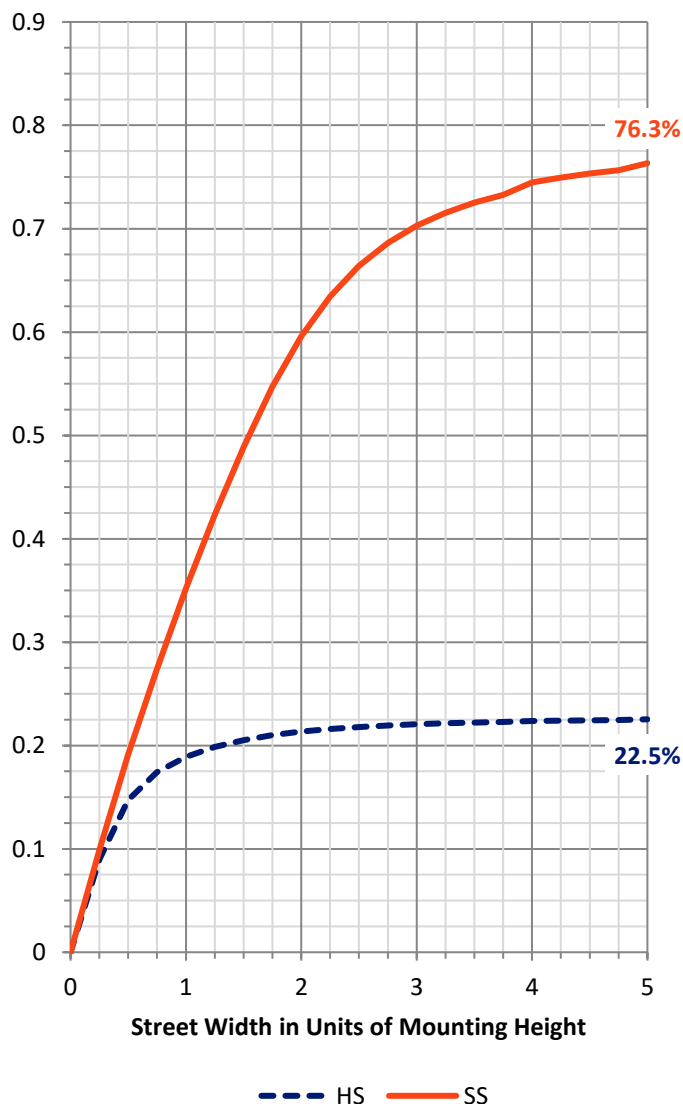
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3194.5	0.0	3194.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10827.5	0.0	10827.5
	% Fixture	77.2	0.0	77.2
Total	Lumens	14022.0	0.0	14022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	1.1
10°-20°	478.3	3.4
20°-30°	798.3	5.7
30°-40°	1228.2	8.8
40°-50°	2024.1	14.4
50°-60°	2891.0	20.6
60°-70°	3599.5	25.7
70°-80°	2429.1	17.3
80°-90°	417.5	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14022.0	100.0
0°-180°	14022.0	100.0

Coefficient of Utilization



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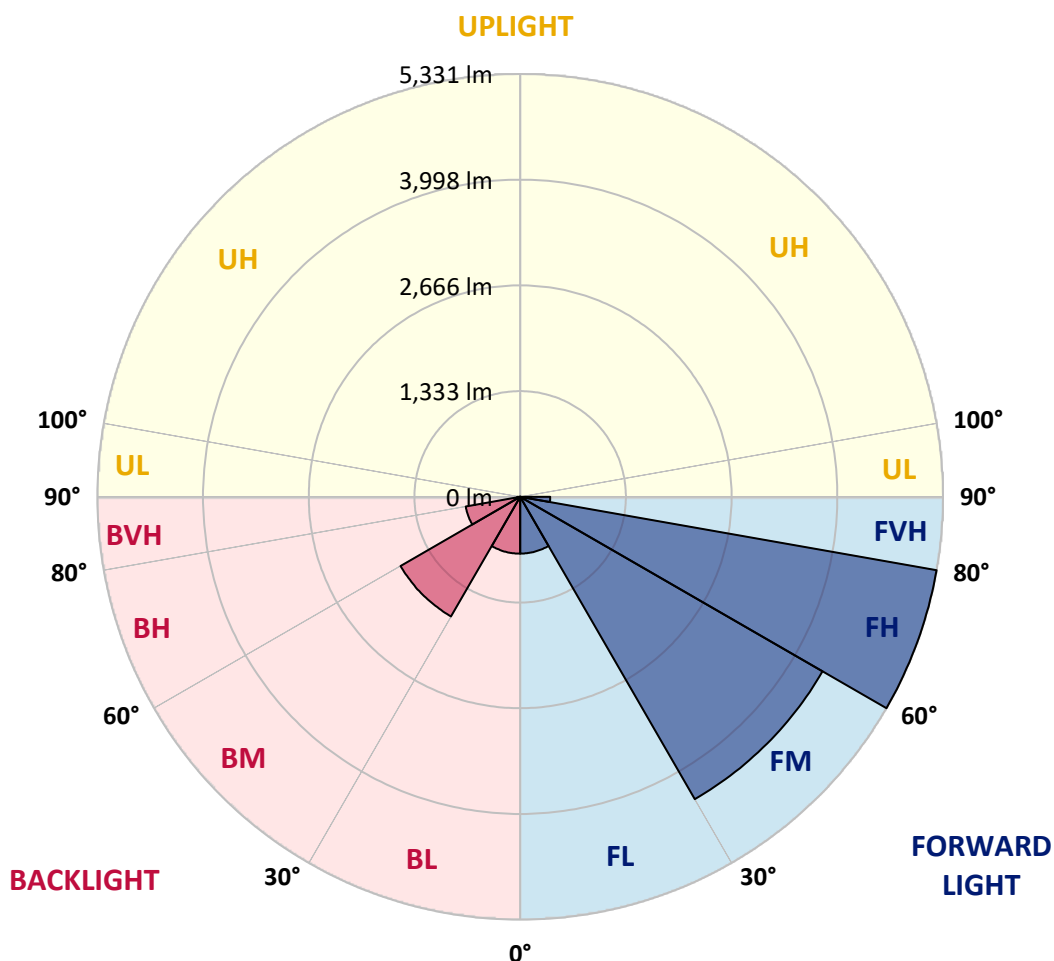
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.6	5.1			
FM (30°-60°)	4401.7	31.4			
FH (60°-80°)	5331.2	38.0			G3/7500
FVH (80°-90°)	379.0	2.7			G3/500
BL (0°-30°)	717.0	5.1	B2/1000		
BM (30°-60°)	1741.7	12.4	B2/2500		
BH (60°-80°)	697.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	38.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1588.6	1603.7	1602.2	1599.2	1600.7	1602.2	1594.7	1590.1	1596.2	1597.7	1605.3
5°	1587.1	1599.2	1597.7	1597.7	1602.2	1600.7	1588.6	1579.6	1590.1	1597.7	1605.3
7.5°	1585.6	1596.2	1596.2	1591.7	1594.7	1594.7	1588.6	1594.7	1594.7	1606.8	1615.8
10°	1584.1	1593.2	1593.2	1594.7	1599.2	1600.7	1600.7	1605.3	1621.9	1626.4	1644.6
12.5°	1566.0	1573.5	1579.6	1588.6	1597.7	1600.7	1608.3	1621.9	1643.1	1653.6	1674.8
15°	1550.8	1561.4	1572.0	1581.1	1594.7	1597.7	1614.3	1637.0	1659.7	1682.4	1714.1
17.5°	1556.9	1570.5	1582.6	1590.1	1600.7	1603.7	1620.4	1650.6	1686.9	1720.1	1764.0
20°	1570.5	1585.6	1597.7	1606.8	1620.4	1623.4	1637.0	1665.7	1712.6	1764.0	1813.9
22.5°	1603.7	1614.3	1627.9	1632.5	1647.6	1650.6	1659.7	1688.4	1748.9	1813.9	1877.3
25°	1634.0	1646.1	1656.7	1661.2	1677.8	1680.8	1697.5	1721.7	1792.7	1866.8	1959.0
27.5°	1673.3	1685.4	1699.0	1703.5	1732.2	1735.3	1742.8	1779.1	1850.1	1936.3	2051.2
30°	1748.9	1756.4	1771.5	1789.7	1818.4	1821.4	1838.0	1875.8	1927.2	2033.0	2185.7
32.5°	1863.7	1874.3	1868.3	1892.5	1934.8	1934.8	1992.2	2055.7	2119.2	2193.3	2395.8
35°	2084.4	2078.4	2072.3	2051.2	2076.9	2085.9	2166.0	2273.4	2450.2	2658.8	2858.3
37.5°	2358.0	2356.5	2324.8	2276.4	2274.9	2277.9	2350.5	2531.8	2813.0	3277.0	3491.7
40°	2778.2	2790.3	2678.5	2578.7	2522.8	2510.7	2568.1	2796.4	3174.2	3792.5	3939.1
42.5°	3198.4	3172.7	3082.0	2920.3	2826.6	2819.0	2829.6	3029.1	3524.9	4209.7	4262.6
45°	3570.3	3589.9	3447.8	3349.6	3177.3	3180.3	3133.4	3316.3	3872.6	4504.4	4513.5
47.5°	3949.7	3964.8	3787.9	3676.1	3511.3	3511.3	3437.3	3582.4	4182.4	4785.6	4767.4
50°	4354.8	4389.5	4167.3	3998.0	3846.9	3840.8	3818.2	3908.9	4487.8	5022.9	4950.3
52.5°	4901.9	4782.5	4572.4	4342.7	4193.0	4174.9	4153.7	4218.7	4838.5	5216.3	5068.2
55°	5467.3	5305.5	5090.9	4782.5	4499.9	4525.6	4472.7	4546.7	5160.4	5447.6	5222.4
57.5°	5810.4	5870.8	5754.5	5489.9	5024.4	5019.8	4820.3	4859.6	5449.1	5642.6	5385.6
60°	6171.6	6256.3	6334.9	6177.7	5957.0	5857.2	5344.8	5192.2	5774.1	5784.7	5367.5
62.5°	6360.6	6344.0	6685.6	6703.7	6874.5	6886.6	6386.3	5622.9	5966.1	5904.1	5431.0
65°	6023.5	6032.6	6594.9	6888.1	7476.1	7510.9	7328.0	6380.2	6127.8	5960.0	5358.4
67.5°	5452.1	5503.5	5925.3	6650.8	7903.9	7897.8	7501.8	7039.3	6170.1	5947.9	5252.6
70°	4459.1	4513.5	4945.8	5999.3	7810.2	7760.3	7427.7	7092.2	6133.9	5839.1	4725.1
72.5°	3420.6	3413.1	3860.5	4791.6	7120.9	7169.3	7048.3	6718.8	5960.0	5373.5	3871.1
75°	2410.9	2373.1	2770.7	3632.2	5872.4	6050.7	6463.4	6372.7	5302.5	4422.8	2587.8
77.5°	1582.6	1640.0	1957.5	2686.0	4617.8	4767.4	5337.3	5157.4	3924.0	2822.1	934.1
80°	1005.2	1056.6	1313.5	1918.2	3357.1	3425.2	3890.7	3280.1	2096.5	931.1	130.0
82.5°	610.7	618.2	846.5	1296.9	2315.7	2315.7	2450.2	1833.5	820.8	120.9	84.6
85°	325.0	343.1	456.5	699.8	1166.9	1254.6	1111.0	699.8	158.7	66.5	51.4
87.5°	102.8	104.3	149.6	270.6	250.9	258.5	86.2	36.3	18.1	12.1	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1608.3	1609.8	1618.9	1623.4	1624.9	1620.4	1631.0	1646.1	1641.5	1658.2	1652.1
5°	1608.3	1615.8	1627.9	1626.4	1638.5	1644.6	1656.7	1671.8	1667.2	1691.4	1682.4
7.5°	1620.4	1632.5	1641.5	1659.7	1668.7	1665.7	1692.9	1705.0	1699.0	1717.1	1708.0
10°	1650.6	1664.2	1676.3	1696.0	1709.6	1703.5	1718.6	1726.2	1715.6	1733.7	1729.2
12.5°	1685.4	1700.5	1724.7	1738.3	1748.9	1738.3	1738.3	1733.7	1718.6	1735.3	1724.7
15°	1724.7	1744.3	1777.6	1792.7	1789.7	1771.5	1754.9	1723.2	1682.4	1689.9	1674.8
17.5°	1777.6	1801.8	1839.6	1848.6	1836.5	1792.7	1748.9	1691.4	1618.9	1600.7	1588.6
20°	1835.0	1862.2	1915.1	1910.6	1883.4	1806.3	1736.8	1647.6	1534.2	1482.8	1458.6
22.5°	1913.6	1940.8	1990.7	1963.5	1907.6	1806.3	1688.4	1564.4	1429.9	1354.3	1337.7
25°	1999.8	2037.6	2058.7	1998.3	1901.5	1765.5	1623.4	1460.2	1287.8	1206.2	1189.6
27.5°	2105.6	2131.3	2110.1	2002.8	1871.3	1697.5	1517.6	1321.1	1156.3	1086.8	1062.6
30°	2229.5	2232.6	2149.4	1993.7	1803.3	1600.7	1387.6	1180.5	1053.5	988.6	973.4
32.5°	2394.3	2364.1	2184.2	1951.4	1711.1	1467.7	1242.5	1086.8	981.0	899.4	878.2
35°	2823.6	2686.0	2261.3	1903.0	1599.2	1319.6	1117.0	1002.2	913.0	820.8	804.1
37.5°	3379.8	3136.5	2397.3	1853.2	1472.2	1183.5	1033.9	952.3	876.7	773.9	751.2
40°	3797.0	3515.9	2607.4	1798.7	1355.9	1086.8	988.6	932.6	849.5	755.8	731.6
42.5°	4115.9	3831.8	2823.6	1738.3	1247.0	1011.2	956.8	919.0	838.9	751.2	731.6
45°	4336.6	4052.5	3009.5	1667.2	1108.0	946.2	932.6	896.3	819.3	734.6	715.0
47.5°	4560.3	4208.1	3113.8	1593.2	991.6	910.0	897.9	857.0	786.0	705.9	690.8
50°	4755.3	4385.0	3203.0	1517.6	899.4	866.1	858.6	804.1	736.1	660.5	640.9
52.5°	4811.2	4427.3	3166.7	1513.1	816.2	819.3	804.1	760.3	696.8	615.2	595.5
55°	4938.2	4545.2	3079.0	1374.0	736.1	746.7	743.7	721.0	662.1	586.5	571.4
57.5°	4992.6	4456.0	2952.0	1021.8	653.0	662.1	687.8	687.8	636.4	568.3	554.7
60°	4985.1	4459.1	2725.3	715.0	571.4	595.5	631.8	631.8	591.0	524.5	507.9
62.5°	4927.6	4344.2	2348.9	545.7	520.0	554.7	597.1	569.9	533.6	459.5	447.4
65°	4832.4	4028.3	1627.9	479.2	491.3	532.1	553.2	520.0	476.1	409.6	402.1
67.5°	4451.5	3499.2	757.3	438.3	467.1	498.8	516.9	470.1	424.7	364.3	355.2
70°	3789.4	2560.6	326.5	406.6	438.3	461.0	479.2	430.8	382.4	329.5	326.5
72.5°	2755.5	1366.4	272.1	356.7	390.0	414.2	436.8	388.5	341.6	279.6	279.6
75°	1327.1	226.7	234.3	296.3	326.5	374.9	385.4	317.4	264.5	213.1	208.6
77.5°	163.2	146.6	202.5	235.8	261.5	287.2	312.9	275.1	228.2	175.3	166.3
80°	102.8	102.8	160.2	164.8	178.4	205.6	229.8	214.6	179.9	101.3	93.7
82.5°	75.6	81.6	105.8	78.6	93.7	117.9	134.5	152.7	130.0	71.0	66.5
85°	48.4	52.9	49.9	39.3	51.4	78.6	107.3	105.8	87.7	52.9	49.9
87.5°	10.6	10.6	10.6	9.1	10.6	13.6	25.7	49.9	36.3	28.7	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)